

## Detailed Estimate

**OD/370/3557/121261/426389/00073245 : Modernization and expansion works at K-Maligaon Primary School**  
**Block : Rayagada, Gram Panchayat : Kampamaligam**  
**Created By: T Someswar Rao**

<b>1. Dismantling (AR1613) : Removing old lime or cement plaster</b>								
Removing old lime or cement plaster from walls including raking out joints 12 mm deep and removing the debris within 50m lead and as per direction of Engineer-in-Charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Kichen	4.000	2.650	0.000	2.500	0.000	26.500	-
ii		2.000	4.050	0.000	3.000	0.000	24.300	-
iii		2.000	2.550	0.000	3.000	0.000	15.300	-
iv		1.000	13.500	0.000	3.000	0.000	40.500	-
v	Toilet	1.000	3.300	0.000	2.500	0.000	8.250	-
vi		1.000	4.000	0.000	25.000	0.000	100.000	-
vii	D	4.000	0.750	0.000	1.950	0.000	-	5.850
Total Quantity					209 Sqm (Sqm)		209 Sqm (Square Meter)	
Amount					209 X 50.174193548387		10486.41	
<b>2. Dismantling (AR1616) : Dismantling G.C.I. or A.C. sheet roofing</b>								
Dismantling G.C.I. or A.C. sheet roofing after carefully removing the bolts and nuts including stacking of he materials for reuse and removing the debris within 50m lead and as per direction of Engineer-in-Charge.								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Kitchen	2.000	6.000	3.500	0.000	0.000	42.000	-
ii		1.000	4.550	3.500	0.000	0.000	15.925	-
Total Quantity					57.925 Sqm (Sqm)		57.925 Sqm (Square Meter)	

Amount	57.925 X 90.519892473118	5243.36
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**3. Earth Work (AR0102aa) : Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift**

Earth work in hard soil or gravelly soil foundation & plinth within 50m. Initial lead and 1.5m initial lift including rough dressing and breaking clods to maximum 5cm to 7cm and laying in layers not exceeding 0.3m in depth and as per the direction of the Engineer-in-charge

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Drain	1.000	25.000	0.600	0.450	0.000	6.750	-
ii	Dining	2.000	6.500	0.600	0.450	0.000	3.510	-
iii		2.000	5.000	0.600	0.450	0.000	2.700	-
iv	Step	1.000	5.000	0.900	0.150	0.000	0.675	-
Total Quantity					13.635 cum (cum)		13.635 Cum (Cubic Meter)	
Amount					13.635 X 240.77592		3282.98	

**4. Concrete (AR0303) : Cement concrete (1:3:6) with 4 cm. Crusher Broken hard granite metal**

Cement concrete (1:3:6) with 4 cm. hard granite(Crusher Broken) metal including laying in layers not exceeding 300 mm in depth, ramming, compacting to proper thickness, watering and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Kitchen	2.000	2.450	2.250	0.100	0.000	1.103	-
ii		1.000	6.000	3.550	0.100	0.000	2.130	-
iii		1.000	4.050	2.550	0.100	0.000	1.033	-
iv	Drain	1.000	15.000	0.900	0.150	0.000	2.025	-
v	wall	2.000	25.000	0.200	0.320	0.000	3.200	-
vi	Dining	2.000	6.500	0.600	0.450	0.000	3.510	-
vii		2.000	5.000	0.600	0.450	0.000	2.700	-
viii	Step	2.000	5.000	0.600	0.150	0.000	0.900	-

ix	Floor	1.000	6.500	5.000	0.100	0.000	3.250	-
x		2.000	20.000	0.450	0.250	0.000	4.500	-
Total Quantity					24.35025 cum (cum)		24.35025 Cum (Cubic Meter)	
Amount					24.35025 X 5126.81427942		124839.21	

**5. Plastering (AR1014) : 16mm thick cement Plaster in CM (1:6) over brick work in inside.**

16mm thick cement Plaster in CM (1:6) over brick work in inside including racking out joints finishing smooth with proper plumb and line, curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T & P required for the work etc comp.and as per direction of Engineer-in-charge.

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	kitchen	2.000	2.450	0.000	2.500	0.000	12.250	-
ii	Gable	1.000	6.000	0.000	0.600	0.000	3.600	-
iii		2.000	4.050	0.000	3.000	0.000	24.300	-
iv		2.000	2.550	0.000	3.000	0.000	15.300	-
v		2.000	4.300	0.000	3.000	0.000	25.800	-
vi		2.000	3.000	0.000	3.000	0.000	18.000	-
vii	toilet	2.000	3.300	0.000	2.500	0.000	16.500	-
viii		2.000	4.900	0.000	2.500	0.000	24.500	-
ix		2.000	1.600	0.000	2.500	0.000	8.000	-
x		1.000	2.250	0.000	2.500	0.000	5.625	-
xi	parpets	1.000	21.000	0.375	0.000	0.000	7.875	-
xii	Dining	1.000	18.000	0.000	2.500	0.000	45.000	-
xiii	Gable	1.000	6.500	0.000	0.600	0.000	3.900	-
xiv		1.000	14.000	0.000	2.500	0.000	35.000	-
xv		1.000	10.000	0.000	2.500	0.000	25.000	-

xvi	Gable	1.000	6.500	0.000	0.600	0.000	3.900	-
xvii	D	1.000	1.200	0.000	2.100	0.000	-	2.520
xviii	W	6.000	0.900	0.000	1.200	0.000	-	6.480
Total Quantity					265.55 Sqm (Sqm)		265.55 Sqm (Square Meter)	
Amount					265.55 X 242.276912714		64336.63	

**6. Painting (AR0922) : Finishing wall two coats with distemper of approved shades on new work (Inside)**

Finishing wall two coats with distemper of approved shades on new work to give an even shade including all costs of labor, Paint and Brushes required for the work, etc. complete and as per direction of the Engineer-in-charge.(Inside)

Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Roominsides	12.000	5.500	0.000	3.000	0.000	198.000	-
ii		12.000	4.350	0.000	3.000	0.000	156.600	-
iii	RearLW	1.000	13.750	0.000	3.000	0.000	41.250	-
iv		1.000	3.150	0.000	3.000	0.000	9.450	-
v		2.000	8.500	0.000	3.000	0.000	51.000	-
vi	MusiamHall	2.000	14.000	0.000	3.000	0.000	84.000	-
vii		2.000	5.000	0.000	3.000	0.000	30.000	-
viii	pillars	20.000	0.225	0.000	2.100	0.000	9.450	-
ix		2.000	14.000	0.000	0.900	0.000	25.200	-
x	Toilet	2.000	4.900	0.000	2.500	0.000	24.500	-
xi		2.000	2.250	0.000	2.500	0.000	11.250	-
xii		6.000	1.750	0.000	2.500	0.000	26.250	-
xiii		6.000	1.500	0.000	2.500	0.000	22.500	-
xiv	Kitchen	8.000	2.450	0.000	2.500	0.000	49.000	-

xv	Gable	1.000	6.000	0.000	0.600	0.000	3.600	-
xvi		2.000	6.000	0.000	2.500	0.000	30.000	-
xvii		2.000	4.050	0.000	3.000	0.000	24.300	-
xviii		2.000	2.550	0.000	3.000	0.000	15.300	-
xix		2.000	4.300	0.000	2.500	0.000	21.500	-
xx		2.000	3.000	0.000	3.000	0.000	18.000	-
xxi	BWFront	2.000	30.500	0.000	1.500	0.000	91.500	-
xxii		2.000	29.000	0.000	1.500	0.000	87.000	-
xxiii	D	10.000	0.900	0.000	1.950	0.000	-	17.550
xxiv	W	12.000	0.900	0.000	1.200	0.000	-	12.960
xxv	Dining	1.000	18.000	0.000	2.500	0.000	45.000	-
xxvi	Gable	1.000	6.500	0.000	0.600	0.000	3.900	-
xxvii		1.000	14.000	0.000	2.500	0.000	35.000	-
xxviii		1.000	10.500	0.000	2.500	0.000	26.250	-
xxix	d	1.000	1.200	0.000	2.100	0.000	-	2.520
xxx	W	6.000	0.900	0.000	1.200	0.000	-	6.480
Total Quantity					1100.29 Sqm (Sqm)		1100.29 Sqm (Square Meter)	
Amount					1100.29 X 78.810267175		86714.15	
<b>7. Concrete (AR0307) : Cement concrete (1:2:4)with 12mm size hard broken granite chips per 1cum</b>								
Cement concrete work with (1:2:4) using 12mm size hard granite(crusher broken) chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete as per specifaion and direction of Engineer-in charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Drainvent	1.000	25.000	0.450	0.075	0.000	0.844	-

ii		2.000	25.000	0.300	0.050	0.000	0.750	-
Total Quantity					1.59375 cum (cum)		1.59375 Cum (Cubic Meter)	
Amount					1.59375 X 6705.79354954		10687.36	
<b>8. Flooring (AR0802ii) : 2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips</b>								
2.5 cm thick A.S. flooring in C.C (1:2:4) with 12 mm size HG Hand broken chips including punning incl. cost, conveyance & royalty of materials as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	kitchen	2.000	2.450	2.450	0.000	0.000	12.005	-
ii		1.000	6.000	3.550	0.000	0.000	21.300	-
iii		1.000	4.050	2.550	0.000	0.000	10.328	-
Total Quantity					43.6325 Sqm (Sqm)		43.6325 Sqm (Square Meter)	
Amount					43.6325 X 349.4873758884		15249.01	
<b>9. Masonry Brick Work (AR0603b) : Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth</b>								
Brickwork with Flyash Bricks of size (25cm x 12cm x 8cm) in cement mortar (1:6) in foundation and plinth having crushing strength not less than 75.00 Kg/cm <sup>2</sup> with dimensional tolerance $\pm 8$ percent immersing the bricks in water not less than six hours with cost conveyance, royalty, taxes of all materials, labor, and T&P required for the work, etc. complete and as per direction of Engineer-in-charge.								
SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	parapets	4.000	3.500	0.225	0.225	0.000	0.709	-
ii		1.000	4.300	0.225	0.225	0.000	0.218	-
iii		2.000	2.800	0.225	0.225	0.000	0.284	-
iv	wall	2.000	6.000	0.225	0.600	0.000	1.620	-
v		2.000	6.500	0.225	0.600	0.000	1.755	-
vi		2.000	4.050	0.225	0.900	0.000	1.640	-

vii		2.000	3.000	0.225	0.900	0.000	1.215	-
viii	Dining	2.000	6.500	0.225	2.500	0.000	7.313	-
ix		2.000	5.000	0.225	2.500	0.000	5.625	-
x	Gable	1.000	2.000	6.500	0.600	0.000	7.800	-
xi	D	1.000	1.200	0.000	2.100	0.000	2.520	-
xii	W	6.000	0.900	0.000	1.200	0.000	6.480	-
xiii	parpets	4.000	3.500	0.225	0.225	0.000	0.709	-
Total Quantity					37.8864375 cum (cum)		37.8864375 Cum (Cubic Meter)	
Amount					37.8864375 X 4933.041036056		186895.35	

**10. R.C.C. Work (AR0404B) : Reinforced cement concrete work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips.(Nominal mix as per IS-456, Table-9).**

R.C.C. work of M-20 grade with 20mm & downgrade size black hard crusher broken granite chips including hoisting and laying in position compacting to specified design section and curing for proper period with cost conveyance, royalty, taxes of all materials, labour and T&P required for the work etc. complete and as per direction of Engineer-in charge(Nominal mix as per IS-456, Table-9).

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	PB	1.000	18.000	0.225	0.225	0.000	0.911	-
ii	Lintel	1.000	18.000	0.225	0.150	0.000	0.608	-
Total Quantity					1.51875 cum (cum)		1.51875 Cum (Cubic Meter)	
Amount					1.51875 X 5416.4707506134		8226.26	

**11. Roofing (AR1132i) : Supplying, feeting & fixing of G.C.I. Sheet (0.40mm thick) in roof drilling hole in wind ties**

Supplying, fitting & fixing of G.C.I. Sheet (0.40mm thick) in roof drilling hole in wind ties including fixing of ridges valleys wind ties etc. including cost of fitting, Labour and material etc. complete as per direction of Engineer-in-Charge

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i	Kitchen	3.000	3.000	1.100	0.000	0.000	9.900	-

ii	Dining	2.000	7.000	5.500	0.000	0.000	77.000	-
Total Quantity					86.9 Sqm (Sqm)		86.9 Sqm (Square Meter)	
Amount					86.9 X 537.32000851332		46693.11	
<b>12. R.C.C. Work (AR0410c) : R.C.C. foundation , plinth band and footings bases of columns mass concrete precast slabs etc</b>								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. foundation, plinth band and footings bases of columns mass concrete precast slabs, etc								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Wall	2.000	23.000	0.000	0.250	0.000	11.500	-
ii	PB	2.000	23.000	0.000	0.225	0.000	10.350	-
Total Quantity					21.85 Sqm (Sqm)		21.85 Sqm (Square Meter)	
Amount					21.85 X 216.36314794964		4727.53	
<b>13. R.C.C. Work (AR0410e) : Rigid and smooth centering and shuttering for R.C.C. works including false works and dismantling them after casting</b>								
Rigid and smooth centring and shuttering for R.C.C. works including false works and dismantling them after casting including cost of materials complete in ground floor R.C.C. Lintels Data for 7.8 sqm								
Sl No	Description	No	L	B	D	CF	Quantity	Deduction
i	Lintel	2.000	23.000	0.000	0.150	0.000	6.900	-
ii		1.000	1.200	0.225	0.000	0.000	0.270	-
iii		6.000	0.900	0.000	1.200	0.000	6.480	-
iv		6.000	0.900	0.225	0.000	0.000	1.215	-
Total Quantity					14.865 Sqm (Sqm)		14.865 Sqm (Square Meter)	
Amount					14.865 X 499.15267251462		7419.90	

**14. R.C.C. Work (AR0409) : Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position**

Supplying, fitting, and placing uncoated HYSD bar reinforcement including labor charges for cutting, bending, binding, and tying the grills and placing in position including cost of binding wire 18 to 20 gauge with cost of steel rod and as per drawing, design, and direction of Engineer-in-charge.

SI No	Description	No	L	B	D	CF	Quantity	Deduction
i		1.000	4.000	0.000	0.000	0.000	4.000	-
Total Quantity					4 Qntl (Quintal)		4 Qntl (Quintal)	
Amount					4 X 8640.3140943		34561.26	
Total Amount							609362.53	
<b>Addition</b>								
Provision for PH Work (+) @								
Provision for EI Work (+) @								
Provision for Contingency (+) @							7000.00	
Display Citizen Board (+) @							3500.00	
Any Other Lumpsum (+) @							73137.00	
Provision for survey investigation and quality control (+) @							7000.00	
Total Addition							90637.00	
Grand Net Total Amount							699999.53	

T Someswar Rao  
JE  
Rayagada Block

SAMEER KUMAR RATH  
AEE  
Rayagada Block

SHRI SUJIT KUMAR MISHRA  
BDO  
Rayagada Block